

## Product datasheet for **RC240059**

### ASTN1 (NM\_001286164) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASTN1 (NM_001286164) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ASTN1
Synonyms:	ASTN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240059 representing NM_001286164 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTTAGCCGGGCTCTGCGCCCTGCTCGCCTGCTGCTGGGGCCGGCGGGTGTGGCCACGGCCG  
CCGGCGACGTGGATCCATCCAAGGAGCTGGAGTGCAAGCTCAAAGCATCACGGTGTGGACTGCCCTT  
CCTGCGCGAGAACGACCTGAGCATCATGCACAGCCCTCGGCCTCGGAGCCAAGCTCCTTCTCGGTG  
CGCAACGACTTCCCGGGAGAAATGGTCGTGGTGGACGACCTGGAGAACACGGAGCTGCCCTACTTCGTGC  
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GCAGCCCCAGAAGAGTGCCAGTGTGAGGCAGCCAATGAGATTCACATTCCTTCTGTGCTGATCGGC  
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ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC240059 representing NM\_001286164  
 Red=Cloning site Green=Tags(s)

MALAGLCALLACWGPAAVLATAAGDVDPSSKELECKLKSITVSALPFLRENDLSIMHSPSASEPKLLFSV  
 RNDFFPGEMVVVDLENTLPYFVLEISGNTEDIPLVRWRQQWLENGTLLFHHQDQAPSLPGDPTEEP  
 QHESAEEELRILHISVMGGMIALLLSILCLVMILYTRRRWCKRRRVPQPKSASAEANEIHYIPSVLIG  
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 KSGMDLTPGSDNAKLSLMNKYKDNIIATSPVDSNHQQATLLSHTSSSQKRINNKARAGSAFLNPEGDSG  
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 LITETCPEGSDCGESRELPMNQTLFGEMFFGYNNHSKEVAAGQVLKGTFRQNNFARGLDQQLPDGLVVAT  
 VPLENQCLEEISEPTDPDFLTGMVNFSEVSGYPVLQHWKVRSMYHIKLNQVAISQALSNALHSLDGAT  
 SRADFVALLDQFGNHYIQEAIYGFEEESCIWYPNKQVQRRLWLEYEDISKGNPSDESEERERDPKVLTF  
 PEYITSLSDSGTKHMAAGVRMECHSKGRCPSSCPLCHVTSSPDTAEPVLLLEVTKAAPIYELVTNNQTR  
 LLQEATMSSLWCSGTGDVIEDWCRCDESTAFGADGLPTCAPLPQVLRRLSTVHEPSSTLVLEWEHSEPII  
 GVQIVDYLLRQEKVTDMDHRSKVEETVLSFVDDIISGAKSPCAMPSPQVDPKQLTTISLIIRCLEPDTIY  
 MFTLWGDVNTGRRSRPSDVIKTPCPVDDVKAQEIADKIYNLFNGYTSKGEQQTAYNTLLDLGSPTLHR  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

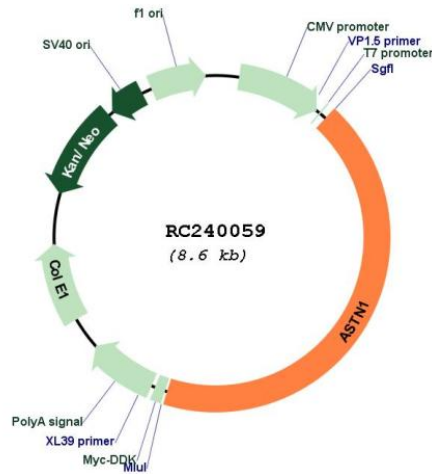
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001286164

ORF Size: 3684 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_001286164.1](#), [NP\\_001273093.1](#)

RefSeq Size: 4221 bp

RefSeq ORF: 3687 bp

Locus ID: 460

Cytogenetics: 1q25.2

Protein Families: Transmembrane

**MW:** 136.9 kDa

**Gene Summary:** Astrotactin is a neuronal adhesion molecule required for glial-guided migration of young postmitotic neuroblasts in cortical regions of developing brain, including cerebrum, hippocampus, cerebellum, and olfactory bulb (Fink et al., 1995).[supplied by OMIM, Jun 2009]